

Deep Rule-Based Classifier for Action Recognition using Temporal and Spatial Information with 3D Skeleton Joints



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INTRODUCTION

One major component of sports game is the accurate recognition of human actions to assess whether players are executing the correct motions. Using traditional rule-based action recognition, however, is too time-consuming and cannot handle subtle variation of human action.

We proposed a video-based multi-action classifier that may assist sports game implementation. To evaluate the performance of the classifier, we train the classifier to classify 6 actions, namely high knee, jumping jack, lunge, plank, punching and squat.

METHODOLOGY





